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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: 📄 pdf(613.63 KB)
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3 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Full text available: 📄 pdf(1.82 MB)   Additional Information: full citation, abstract, references, index terms

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

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181 Developing multiagent systems: The Gaia methodology
Franco Zambonelli, Nicholas R. Jennings, Michael Wooldridge
July 2003   **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume I

Full text available: pdf(346.49 KB)   Additional Information: full citation, abstract, references, index terms

Systems composed of interacting autonomous agents offer a promising software engineering app
developing applications in complex domains. However, this *multiagent system* paradigm introduc
new abstractions and design/development issues when compared with more traditional approach
development. Accordingly, new analysis and design methodologies, as well as new tools, are nee
effectively engineer such systems. Against this background, the contribution ...

Keywords: Multiagent systems, agent-oriented software engineering, analysis and design methc
distributed systems, software architectures

182 Process migration
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, citings, index te

Process migration is the act of transferring a process between two machines. It enables dynamic
distribution, fault resilience, eased system administration, and data access locality. Despite these
ongoing research efforts, migration has not achieved widespread use. With the increasing deploy
distributed systems in general, and distributed operating systems in particular, process migratior
receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migrat

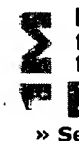## 183 Multimedia communications, relevance feedback and indexing: Facilitate knowledge comm
Weihong Huang, Ting Tao, Mohand-Saïd Hacid, Alain Mille
November 2003 **Proceedings of the 1st ACM international workshop on Multimedia database**

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multimedia e-Learning environments are still limited at a relative low single type media servicing
developments in multimedia knowledge discovery, representation and integration are needed to i
intelligence of the knowledge management and communications at the semantic level. This papei

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